

Flight Scientist Report
Wednesday 02/10/2021 ACTIVATE RF45

Flight Type: UC-12 only
Flight Route: KLF1 ZAGIV KMQI OXANA LSIER OXANA KMQI ZAGIV KLF1
Special Notes: Falcon down due to maintenance

King Air

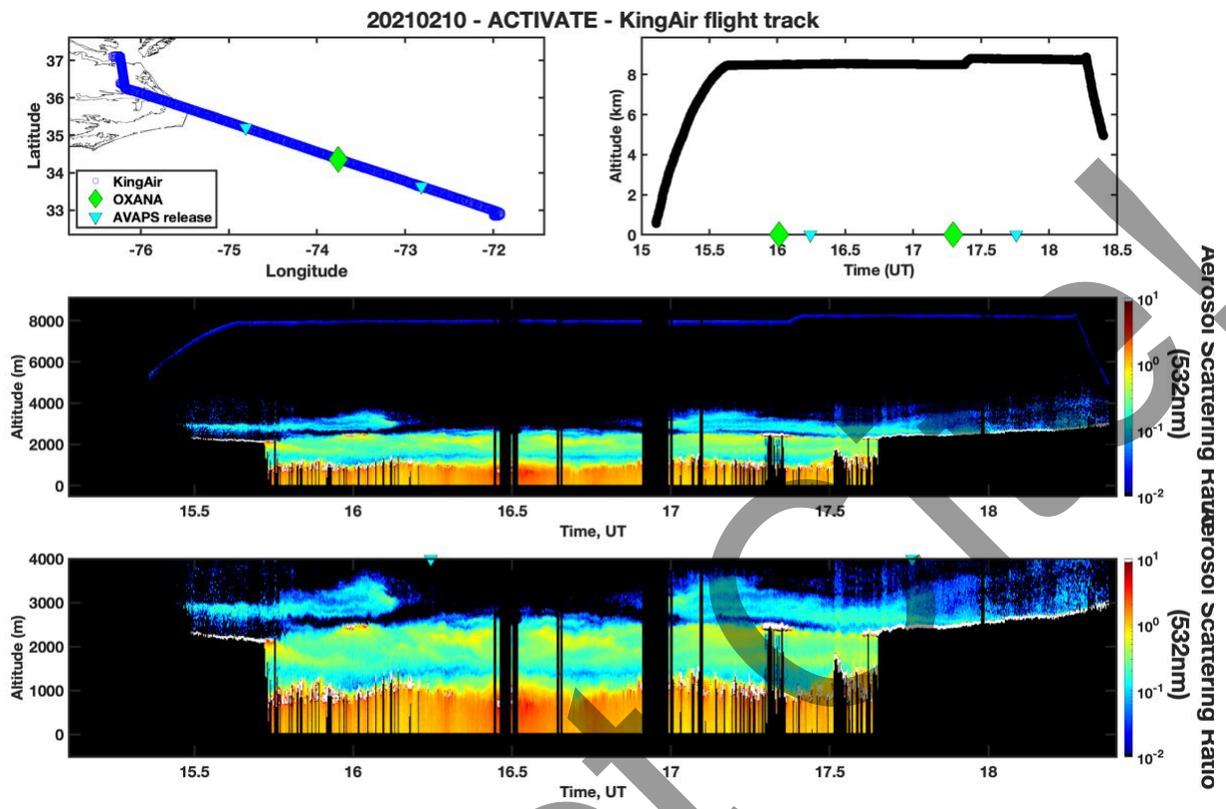
Luke Delaney pilot report: Excellent flight today. Aircraft and instrument all in good order. Excerpt below.

Science flight for the UC-12 in support of ACTIVATE Campaign #3, conducted solo (independent of the HU-25). Departed Rwy08 and climbed to 27000 ft MSL heading to southern corridor via ECG. The weather was clear with a broken/overcast layer at approximately 7000 – 8000 ft overland until ~100 nm offshore, then transitioned to scattered - and even clear at times - approaching turnaround point (LSIER). Predominant wind from the west at 80 knots. Data was collected at 27000 ft MSL for most of the flight, and a climb to 28000 ft MSL was initiated on return leg from OXANA. Two dropsondes were deployed, one between OXANA-LSIER, and the other midway down track ECG-OXANA. All objectives were achieved and no system discrepancies were noted, pending post-flight data analysis.

Taylor Shingler scientist report: We flew the UC12 only today out of AR8 through OXANA to LSIER and back. The flight was used to collect data along scattered shallow cu and across a mid-level stratus deck closer to the coast. All systems were operational today and two sondes were dropped. The first was dropped on the way out between OXANA and LSIER, and one was dropped on the return leg between OXANA and the coast.

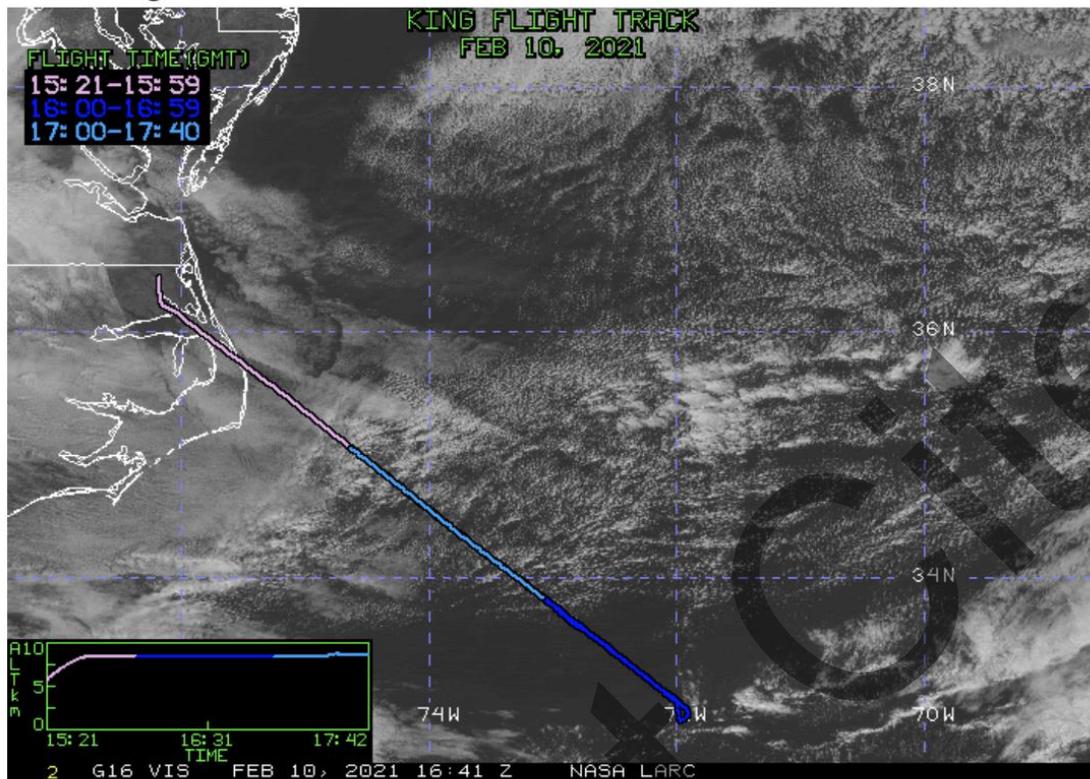
Falcon

Plane down due to maintenance

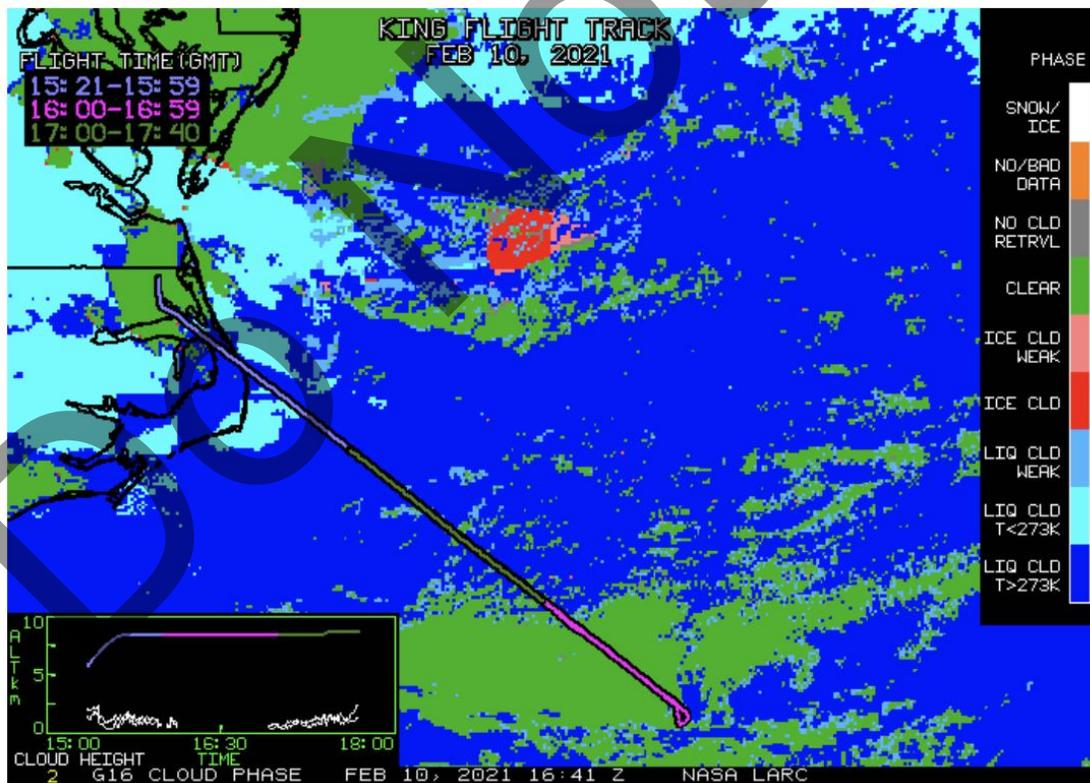


NASA-LaRC Clouds Group GOES-16 Quicklook Images for Flight 45, 16:41 UTC Feb 10, 2021

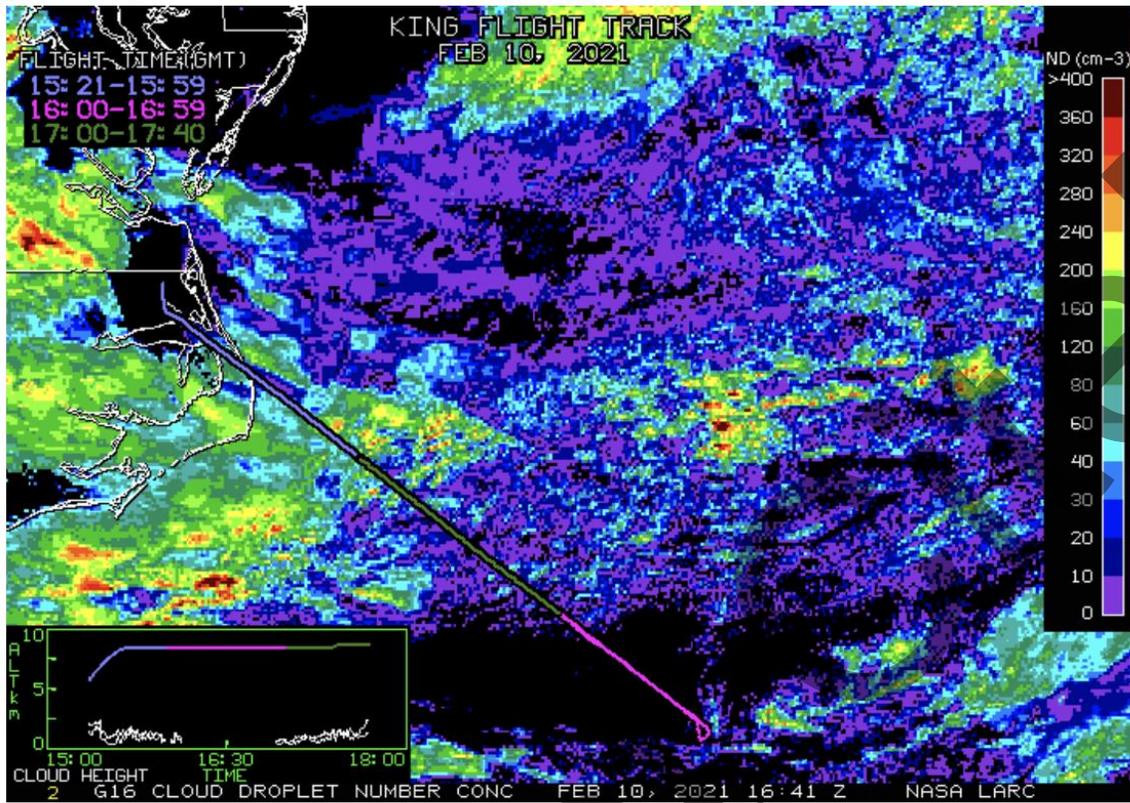
Visible Image



Cloud Phase



Cloud Droplet Number Concentration (cm-3)



Cloud-Top Height (Kft-ASL)

